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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,685	02/06/2004	Alan W. Weimer	UTC 010 7806	
23408 7590 10/16/2007 GARY C. COHN, PLLC 1147 NORTH FOURTH STREET			EXAMINER	
			YOON, TAE H	
UNIT 6E PHILADELPHIA, PA 19123		ART UNIT	PAPER NUMBER	
			1796	
		<b>-</b>		
			MAIL DATE	DELIVERY MODE
			10/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant/a)			
		Applicant(s)			
Office Action Summan	10/773,685	WEIMER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tae H. Yoon	1796			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be the state of	NN. imely filed  the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 03 0 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under Expression in the condition of the condit	action is non-final. nce except for formal matters, p				
Disposition of Claims					
4) ☐ Claim(s) 8-10 and 14-18 is/are pending in the 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 9,10 and 14-18 is/are allowed. 6) ☐ Claim(s) 8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o  Application Papers 9) ☐ The specification is objected to by the Examine	wn from consideration. r election requirement.				
10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:	Date			

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Anselman et al (US 6,648,958).

Anselman et al teach silica particles with a diameter of less than 20  $\mu$ m coated with titanium dioxide and a further layer of SiO<sub>2</sub> in abstract and claim 20 and at col. 2, lines 57-65. Said coated pigment has a refractive index of 1.45 to 1.65 (abstract). Said diameter of less than 50  $\mu$ m encompasses the instant particle size inherently, and the recited atomic layer deposition process has little probative in a product claim.

Thus, the instant invention lacks novelty.

Claim 8 is rejected under 35 U.S.C. 103(a) as obvious over Anselman et al (US 6,648,958) and WO 03/008186.

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WO teaches metal oxide particles having a particle size of 0.1 to 10  $\mu$ m (100 to 10000 nanometers, page 3, line 19) coated (or deposited) with 1 to 20 nm thickness of atomic layer deposited metal oxide (page 3, lines 17-24).

It would have been obvious to one skilled in the art at the time of invention to utilize nanosized silica and to obtain coated nanosized silica (pigment) taught by WO in Anselman et al since the diameter of less than 20  $\mu$ m encompasses the instant nano particle size absent showing otherwise.

Claims 9, 10 and 14-18 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H. Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tae H Yoon

Primary Examiner Art Unit 1796

THY/October 11, 2007